

Roussin's black salt decorated Cu-doped ZnO nanoparticles for bacteria inhibition

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Supplementary materials

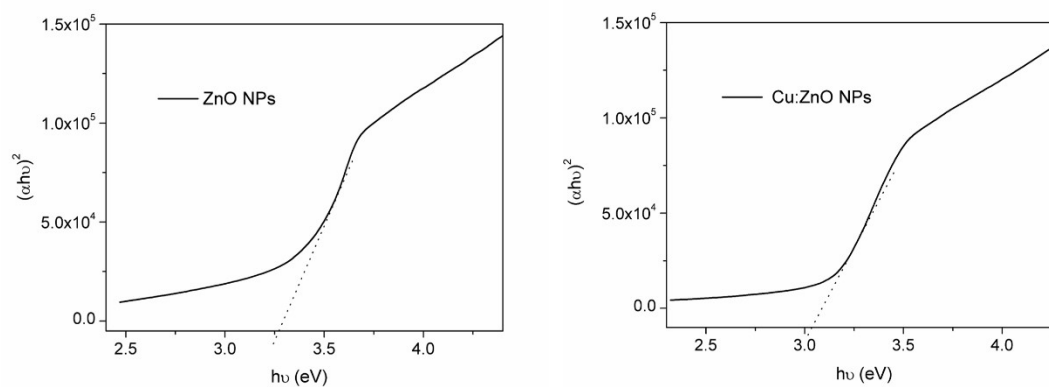


Fig. S1. Tauc plots based on the data in Fig. 2b for ZnO and Cu:ZnO NPs to determine their band gap.

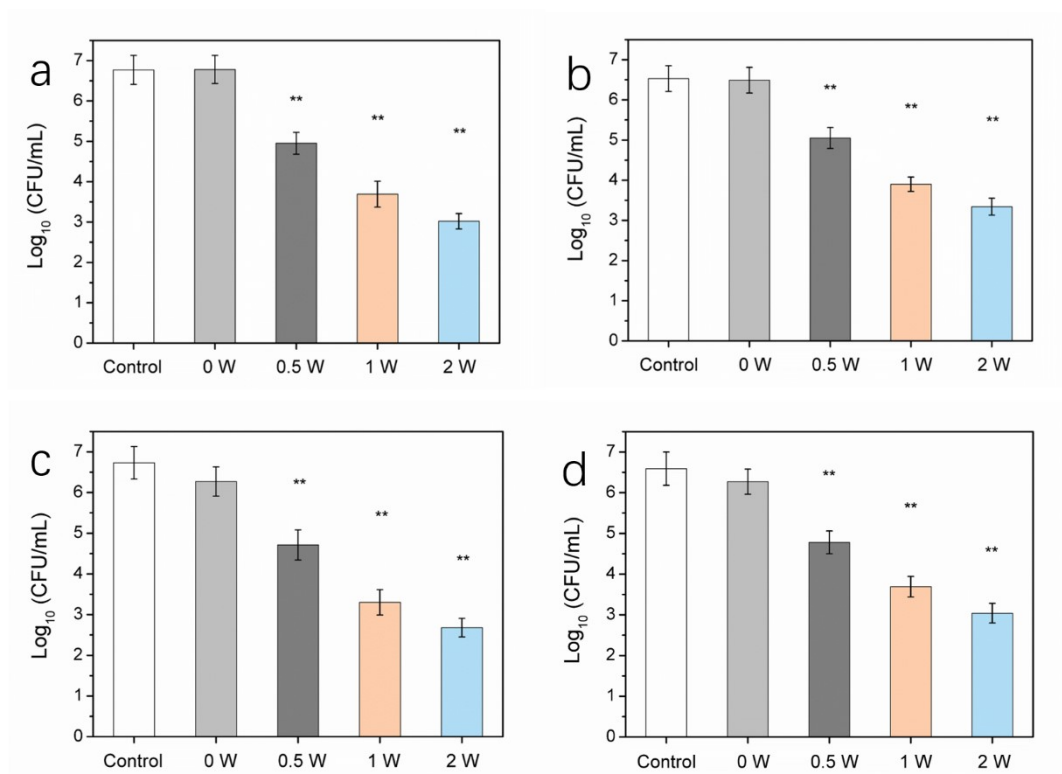


Fig. S2. Antibacterial activity of RBS against *S. aureus* (a) and *E. coli* (b), and RBS@ZnO NPs against *S. aureus* (c) and *E. coli* (d) under 543 nm laser irradiation for 10 min at varied power outputs. The data are presented as average \pm standard deviation (n = 3). Statistical significance: *P < 0.05, **P < 0.01.

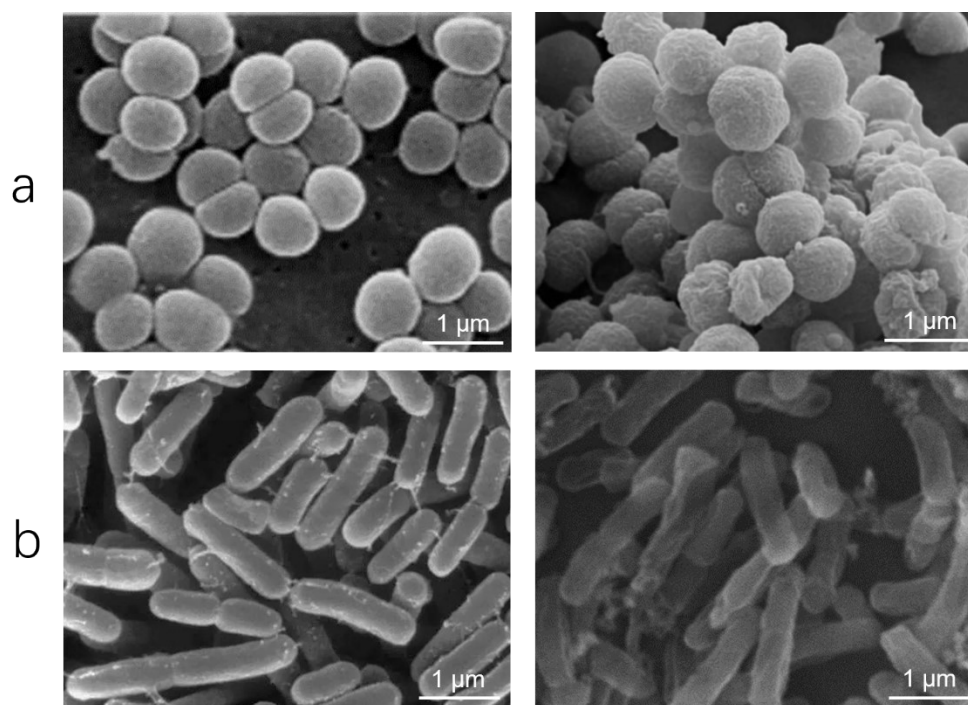


Fig. S3. (a) SEM images of untreated *S. aureus* (left) and *S. aureus* treated with RBS@Cu:ZnO NPs under 543 nm laser irradiation (2 W, 10 min) (right); (b) SEM images of untreated *E. coli* (left) and *E. coli* treated with RBS@Cu:ZnO NPs under 543 nm laser irradiation (2 W, 10 min) (right).